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|-------------------------------|------------------------|---------------------|--|
| <b>Notice of Allowability</b> | <b>Application No.</b> | <b>Applicant(s)</b> |  |
|                               | 10/618,379             | PATADIA ET AL.      |  |
|                               | <b>Examiner</b>        | <b>Art Unit</b>     |  |
|                               | Andrea N. Long         | 2176                |  |

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 12/29/2008.
2. ☒ The allowed claim(s) is/are 1, 3, 5-11, 22, 24, 26-33, and 45-52, renumbered 1-27.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

**Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |   |
|--|---|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application                                 |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date <u>12/29/2008</u> | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                               |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material                     | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance              |
|  | 9. <input type="checkbox"/> Other _____.  |

/DOUG HUTTON/  
 Supervisory Patent Examiner, Art Unit 2176

### EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Nathan Feld on 02/26/2009.

Please amend the claims as follows:

1. (Currently Amended) ~~An interactive tool~~ A method for viewing and manipulating a virtual content repository (VCR) having an application program interface (API), comprising:  
providing a ~~first~~ graphical user interface (GUI), having a navigation pane and an editor window, configured to present a hierarchical namespace, shown in the navigation pane, that spans information in a plurality of content repositories represented by the virtual content repository, wherein the namespace includes at least one element, and wherein one of the at least one element can be selected;  
displaying a content editor in the editor window when a content mode is selected in the navigation pane wherein the content editor is configured to present and to enable editing of content associated with the selected element in the navigation pane;

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displaying a schema editor in the editor window when a type mode is selected in the navigation pane wherein the schema editor is configured to present and to enable editing of schema associated with the selected element in the navigation pane;

wherein the VCR logically represents the plurality of content repositories as a single content repository;

wherein each one of the plurality of content repositories represented by the VCR implements a different service provider interface SPI compatible with the API, wherein each SPI and the API share a content model, and wherein each SPI maps operations on the content model to operations on the content repository implementing that SPI; and

wherein the SPI enables each one of the plurality of content repositories to plug into the VCR.

- In each of Claims 3 and 5-11, amend the phrase “*interactive tool*” to — method —.

22. (Currently Amended) A machine readable storage medium having instructions stored thereon that when executed by a processor cause a system to:

provide a ~~first~~ graphical user interface (GUI), having a navigation pane and an editor window, configured to present a hierarchical namespace, shown in the navigation pane, that spans information in a plurality of content repositories represented by a virtual content repository

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(VCR), wherein the namespace includes at least one element, and wherein one of the at least one element can be selected;

display a content editor in the editor window when a content mode is selected in the navigation pane wherein the content editor is configured to present and to enable editing of content associated with the selected element in the navigation pane;

display a schema editor in the editor window when a type mode is selected in the navigation pane wherein the schema editor is configured to present and to enable editing of schema associated with the selected element in the navigation pane;

wherein the VCR logically represents the plurality of content repositories as a single content repository;

wherein each one of the plurality of content repositories represented by the VCR implements a different service provider interface SPI compatible with the API, wherein each SPI and the API share a content model, and wherein each SPI maps operations on the content model to operations on the content repository implementing that SPI; and

wherein the SPI enables each one of the plurality of content repositories to plug into the VCR.

- In each of Claims 24 and 26-32, amend the phrase “*machine readable medium*” to — machine readable storage medium —.

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33. (Currently Amended) A system for viewing and manipulating a virtual content repository (VCR) having an application program interface (API), comprising:

a means for providing a ~~first~~ graphical user interface (GUI), having a navigation pane and an editor window, configured to present a hierarchical namespace, shown in the navigation pane, that spans information in a plurality of content repositories represented by the virtual content repository, wherein the namespace includes at least one element, and wherein one of the at least one element can be selected;

a means for displaying a content editor in the editor window when a content mode is selected in the navigation pane wherein the content editor is configured to present and to enable editing of content associated with the selected element in the navigation pane;

a means for displaying a schema editor in the editor window when a type mode is selected in the navigation pane wherein the schema editor is configured to present and to enable editing of schema associated with the selected element in the navigation pane;

wherein the VCR logically represents the plurality of content repositories as a single content repository;

wherein each one of the plurality of content repositories represented by the VCR implements a different service provider interface SPI compatible with the API, wherein each SPI and the API share a content model, and wherein each SPI maps operations on the content model to operations on the content repository implementing that SPI; and

wherein the SPI enables each one of the plurality of content repositories to plug into the VCR.

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45. (Currently Amended) A web portal, embodied in a storage medium, for viewing and manipulating a virtual content repository (VCR) having an application program interface (API), comprising:

a navigation pane, having a plurality of selectable modes, that presents ~~configured to present~~ a hierarchical namespace that spans information in a plurality of content repositories represented by the virtual content repository, wherein the namespace includes at least one element, and wherein one of the at least one element can be selected;

an editor window that presents ~~configured to present~~ and to enable editing of information associated with the selected element in the navigation pane;

a content mode in the plurality of selectable modes, wherein when the content mode is selected the navigation pane shows ~~only~~ only elements in the namespace that include content and the editors window presents and enables editing of content information associated with the selected element in the navigation pane;

a type mode in the plurality of modes, wherein when the type mode is selected the navigation pane shows only elements that include only schemas and the editor window presents and enables editing of schema information associated with the selected element in the navigation pane;

wherein the VCR logically represents the plurality of content repositories as a single content repository;

wherein each one of the plurality of content repositories represented by the VCR implements a different service provider interface SPI compatible with the API, wherein each SPI

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and the API share a content model, and wherein each SPI maps operations on the content model to operations on the content repository implementing that SPI; and

wherein the SPI enables each one of the plurality of content repositories to plug into the VCR.

*Allowable Subject Matter*

Claims 1, 3, 5-11, 22, 24, 26-33, and 45-52 are allowed.

The following is an examiner's statement of reasons for allowance:

Claims 1, 22, 23 and 45:

The closest prior art is Kim, US 2003/0120686 A1; Tanyi "Easy XML"; and Park, US 2004/0024812 A1.

Kim teaches a system which includes a repository having a content repository described by an internal expression, which is capable of integrating a plurality of static and dynamic content. Techniques for extensible stylesheet designs using meta-tag and/or associated meta-tag Information are described. To generate a proper stylesheet (e.g., an XSL or XSLT file) from a source file (e.g., an XML file), all meta-tag and/or associated meta-tag Information are differentiated by attaching respectively unique identifiers to those that are otherwise identical. To facilitate user required operations on certain data in the source file, a document source path for the data is identified and inserted with one or more operators thus to form document source

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path information. The differentiated meta-tag and/or associated meta-tag Information and source path information are relied upon to generate one or more stylesheets.

Tanyi teaches a tool for rapidly creating, validating, manipulating, and transforming XML structures from ODBC data sources or from URLs and local files. Tanyi offers a user interface that represents two views of XML data, by providing a text view and a tree view, while allowing minor changes like adding DTD/Schema with the text view.

Park teaches a content publication system supporting real-time integration and processing of multimedia content including dynamic data is provided. The content publication system includes a repository having a content repository described by a predetermined internal expression, which is capable of integrating a plurality of static and dynamic content, in unit of containers, a converter object repository for storing output format conversion rules for different devices, and a media converter repository for converting multimedia data to be suitable for the characteristics of each device; and a service publication server for fetching a corresponding container from the content repository in response to a content request received from a web server, accessing dynamic content using dynamic content access information included in the fetched container, integrating the dynamic content with static content in real time converting the integrated content according to an output format conversion rule fetched from the converter object repository for a corresponding device, converting multimedia data using a multimedia converter, and transmitting the result of conversion to the web server for the delivery to the device. Accordingly, a service producer can utilize dynamic data from various sources without the burden of content conversion which is different depending on the type of user terminal, thereby easily providing comprehensive Internet services for users.



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However, the prior art fails to disclose or suggest a navigation pane having a plurality of selectable modes, which upon selection provided the corresponding content or schema editing view in the editor window for editing and wherein each one of the plurality of content repositories represented by the VCR implements a different service provider interface SPI compatible with the API, wherein each SPI and the API share a content model, and wherein each SPI maps operations on the content model to operations on the content repository implementing that SPI.

Claims 3, 5-11, 24, 26-33, and 46-52 are dependent upon either claims 1, 22, or 45 and are thus allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrea N. Long whose telephone number is 571-270-1055. The examiner can normally be reached on Mon - Thurs 6:00 am to 3:00 pm EST.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Doug Hutton can be reached on 571-272-4137. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Andrea N Long/  
Examiner, Art Unit 2176

/DOUG HUTTON/  
Supervisory Patent Examiner, Art Unit 2176